#### DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials

Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: xx.28

# WELDING INSPECTION REPORT

Resident Engineer: Siegenthaler, Peter **Report No:** WIR-022164 Address: 333 Burma Road **Date Inspected:** 27-Mar-2011

City: Oakland, CA 94607

**OSM Arrival Time:** 700 **Project Name:** SAS Superstructure **OSM Departure Time:** 1900 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai China

**CWI Name: CWI Present:** Yes Mr. Zhu Zhong Hai. No **Inspected CWI report:** Yes No N/A **Rod Oven in Use:** Yes No N/A Yes N/A N/A **Electrode to specification:** No Weld Procedures Followed: Yes No N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A N/A Yes N/A **Approved Drawings:** Yes No **Approved WPS:** No Yes No N/A **Delayed / Cancelled:** 

34-0006 **Bridge No: Component: OBG** Trial Assembly

### **Summary of Items Observed:**

On this day CALTRANS OSM Quality Assurance (QA) Inspector Raghavendra Reddy was present during the times noted above for observations relative to the fabrication of the SAS Superstructure being performed by Zhenhua Port Machinery Company (ZPMC) at Changxing Island in Shanghai, China. QA observed and/or found the following:

This QA Inspector observed the following work in progress:

#### Trial Assembly:-

Shielded Metal Arc (SMAW) welding of Weld Joint OBW12C-025 (13CW, Edge Panel to Cantilever Beam weld, CB Side), and Welding Repair Report(WR)B-WR20512, Welder is identified as 046709; ZPMC Quality Control (QC) is identified as Mr. Zhu Peng, The welding variables appeared to comply with the Applicable WPS-345-SMAW-4G(4F)-FCM-Repair-1.

Shielded Metal Arc (SMAW) welding of Weld Joint OBW12C-022 (13CW, Edge Panel to Cantilever Beam weld, CB Side ), and Welding Repair Report(WR)B-WR20512, Welder is identified as 046709; ZPMC Quality Control (QC) is identified as Mr. Zhu Peng, The welding variables appeared to comply with the Applicable WPS-345-SMAW-1G(1F)-FCM-Repair-1.

Shielded Metal Arc (SMAW) welding of Weld Joint OBW12C-026 (13CW, Edge Panel to Cantilever Beam weld, CB Side ), and Welding Repair Report(WR)B-WR20512, Welder is identified as 046709; ZPMC Quality Control

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(QC) is identified as Mr. Zhu Peng, The welding variables appeared to comply with the Applicable WPS-345-SMAW-1G(1F)-FCM-Repair-1.

Shielded Metal Arc (SMAW) welding of Weld Joint OBE12C-030/033 (13AE, Edge Panel to Cantilever Beam weld, CB Side), and Welding Repair Report(WR)B-WR20511, Welder is identified as 067752; ZPMC Quality Control (QC) is identified as Mr. Wang Li Yang, The welding variables appeared to comply with the Applicable WPS-345-SMAW-4G(4F)-FCM-Repair-1.

Shielded Metal Arc (SMAW) welding of Weld Joint OBE12C-014 (13BE, Edge Panel to Cantilever Beam weld, CB Side), and Welding Repair Report(WR)B-WR20511, Welder is identified as 067752; ZPMC Quality Control (QC) is identified as Mr. Wang Li Yang, The welding variables appeared to comply with the Applicable WPS-345-SMAW-4G(4F)-FCM-Repair-1.

The following Non Destructive Testing (NDT) Inspection carried out as per the ZPMC submitted Notification No. 08641.

Magnetic Particle Testing (MT)

This QA Inspector performed MT of approximately 15% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated a MT report for this date. The member is identified as OBG 12 EAST welds, The weld designations reviewed are as follows.

1. OBE12G-100~113,023,024,018~021,012,022,017

The following Non Destructive Testing (NDT) Inspection carried out as per the ZPMC submitted Notification No. 08648.

Ultrasonic Testing (UT)

This QA Inspector performed UT of approximately 10% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated a UT report for this date. The member is identified as OBG 12 East welds, The weld designations reviewed are as follows.

1. OBE12G-100,103,012,022,017.

Unless otherwise noted, all work observed on this date appeared to be in general compliance with the applicable contract documents.

# **Summary of Conversations:**

Only general conversation was held between QA and QC concerning this project.

#### **Comments**

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang (15000422372), who represents the Office of Structural Materials for

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your project.

**Inspected By:** Tharikoppada, Reddy Quality Assurance Inspector

**Reviewed By:** Miller,Mark QA Reviewer